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(71) Applicant (for all designated States except US): SOMA  
NETWORKS, INC. [US/US]; Legal Department, Suite  
2000, Warfside Bldg., China Basin Landing, 185 Berry St.,  
San Francisco, CA 94107 (US).

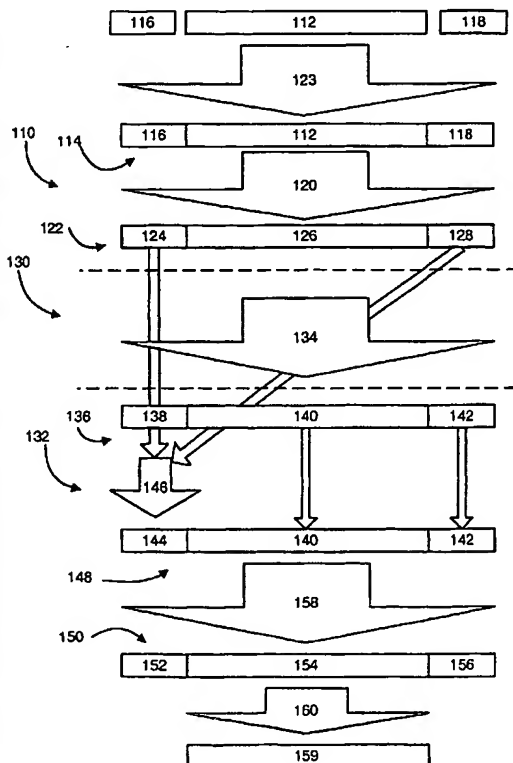
(72) Inventors; and  
(75) Inventors/Applicants (for US only): WU, Shiquan  
[CA/CA]; c/o SOMA Networks, Inc., 312 Adelaide  
Street West, Suite 700, Toronto, Ontario M5V 1R2  
(CA). LAROCHE, Jean-Philippe [CA/CA]; c/o SOMA  
Networks, Inc., 312 Adelaide Street West, Suite 700,  
Toronto, Ontario M5V 1R2 (CA). LAMONTAGNE,  
Rene, R., C. [CA/CA]; c/o SOMA Networks, Inc., 312  
Adelaide Street West, Suite 700, Toronto, Ontario M5V  
1R2 (CA). KSCHISCHANG, Frank, R. [CA/CA]; c/o  
SOMA Networks, Inc., 312 Adelaide Street West, Suite  
700, Toronto, Ontario M5V 1R2 (CA). DAINES, Jeffrey,  
T. [CA/CA]; c/o SOMA Networks, Inc., 312 Adelaide  
Street West, Suite 700, Toronto, Ontario M5V 1R2 (CA).

(74) Agents: DAINES, Jeffrey, T. et al.; c/o SOMA Networks,  
Inc., 312 Adelaide Street West, Suite 700, Toronto, Ontario  
M5V 1R2 (CA).

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(54) Title: FREQUENCY DOMAIN EQUALIZATION IN COMMUNICATIONS SYSTEMS WITH SCRAMBLING



(57) Abstract: A method of, and system for applying  
frequency-domain equalization in a DS-CDMA system,  
either by augmenting the transmitted data block before it is  
scrambled by appending a prefix and a suffix known to or  
knowable by the receiver or by augmenting the transmitted  
data block after it is scrambled but prior to transmission  
so that it has a scrambled cyclic prefix. In the former case,  
the receiver synthesizes one of the prefix, the data block, or  
the suffix that would have been received if the augmented  
transmitted data block after scrambling had had a cyclic  
prefix.

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